

## United States Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	OCKET NO. CONFIRMATION NO.	
10/017,350	12/14/2001	Glenn A. Rinne	9180-10 6825		
20792 7	590 03/10/2003				
MYERS BIGEL SIBLEY & SAJOVEC			EXAMINER		
PO BOX 3742 RALEIGH, NO	-		TRAN, LEN		
			ART UNIT	PAPER NUMBER	
			1725		
			DATE MAILED: 03/10/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 14 December 2001.  2a) This action is FINAL.  2b) This action is non-final.				CK					
## Examiner	Applica	on No.	Applicant(s)						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (8) MONTHS from the mailing date of this communication.  If the period for reply is specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed. The maximum date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 14 December 2001.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-67 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are objected to.  8) Claim(s) 1-67 are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.		50	RINNE ET AL.						
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Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120	§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:		- , ,	., .,						
1. Certified copies of the priority documents have been received.	pies of the priority documents have bee	received.							
2. Certified copies of the priority documents have been received in Application No	pies of the priority documents have bee	received in Application	n <b>N</b> o						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application				application).					
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment(s)	p G.	22 2/3/0/ 33 /20 0							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152)  6) Other:	ent Drawing Review (PTO-948)	) Notice of Informal Pa							

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1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-33, drawn to a method, classified in class 427.

II. Claims 34-67, drawn to an apparatus, classified in class 428.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as apparatus and product made. The inventions in this

relationship are distinct if either or both of the following can be shown: (1) that the apparatus as

claimed is not an obvious apparatus for making the product and the apparatus can be used for

making a different product or (2) that the product as claimed can be made by another and

materially different apparatus (MPEP § 806.05(g)). In this case the article can be made by

welding, soldering, or brazing.

3. Because these inventions are distinct for the reasons given above and the search required

for Group I is not required for Group II, restriction for examination purposes as indicated is

proper.

If applicant elects group I, applicant must additionally elects the following:

4. This application contains claims directed to the following patentably distinct species of

the claimed invention:

Ia. Claims 1-2 drawn to bonding two components.

Ib. Claims 1 and 3 drawn to electroplating.

Ic. Claims 1 and 4 drawn to electroless plating.

Id. Claims 1 and 5 drawn to dielectric particles.

- Ie. Claims 1, 6-17 drawn to diffusion bonding of particles.
- If. Claims 1, 6, 18, 29-33 drawn to vibration.
- Ig. Claims 1, 6, 19 drawn to electrical current.
- Ih. Claims 1, 6, 20 drawn to foam of particles.
- Ii. Claims 1, 6, 21, 22 drawn to liquid species.
- Ij. Claims 1, 6, 23-25 drawn to corroding.
- Ik. Claims 1, 6, 26 drawn to applying pressure.
- II. Claims 1, 6, 27 drawn to plating.
- Im. Claims 1, 6, 28 drawn to providing a solution.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after

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the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (703)605-1175. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 703-308-3318. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-3602 for regular communications and (703)305-3602 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

Len Tran Examiner Art Unit 1725

LT March 3, 2003

> M. ALEXANDRA ELVE PRIMARY EXAMINER